U.S. ARMY CHEMICAL MATERIALS AGENCY

CREATING A SAFER TOMORROW

DCD Restoration Advisory Board

Tooele Chemical Agent Disposal Facility Progress

Ted Ryba

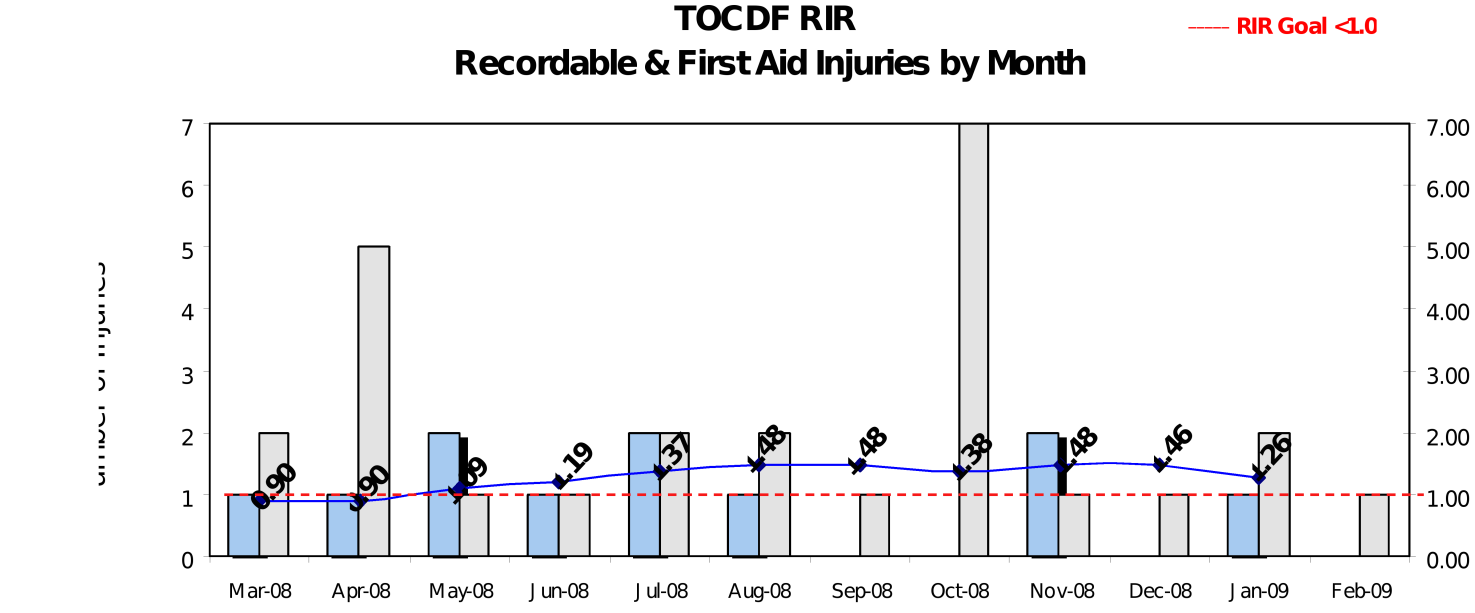
TOCDF Site Project Manager

March 17, 2009

Agenda

- Safe Production
- Mustard Campaign Status
  - Ton Container Status
  - Heel Transfer System (HTS)
  - Pollution Abatement System (PAS) Filtration System (PFS) Project
  - 4.2” HT Mortar Campaign Preparations
  - Leaker/Reject Campaign
- GA/Lewisite Update
- TOCDF Secondary Waste Update
- Mustard Campaign Path Forward

Ton Container Status - Safe Production

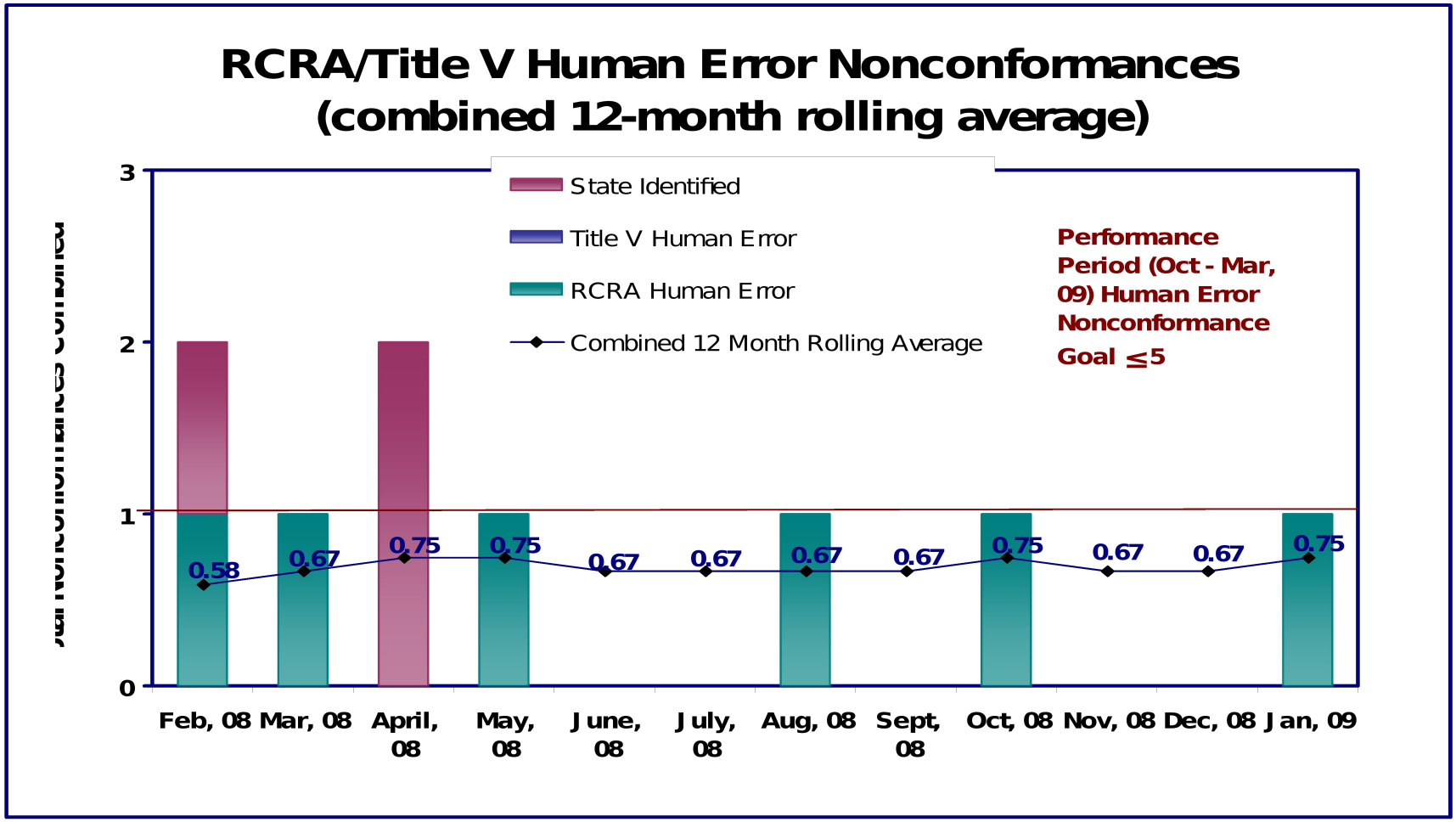


	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09
Recordables	1	1	2	1	2	1	0	0	2	0	1	
First Aids	2	5	1	1	2	2	1	7	1	1	2	1
RIR	0.90	0.90	1.09	1.19	1.37	1.48	1.48	1.38	1.48	1.46	1.26	

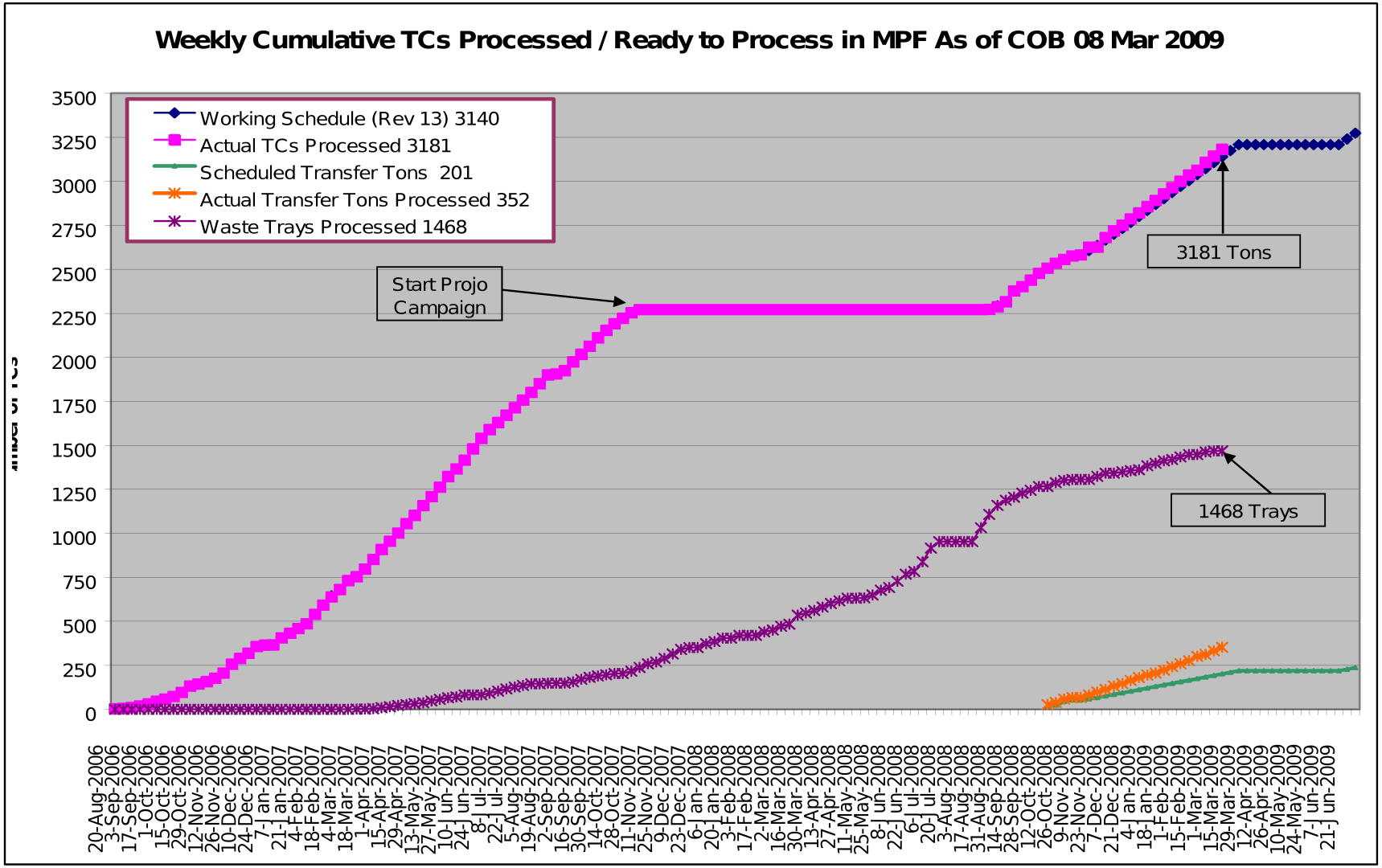
- As of 31 January 2009, EG&G has worked 6,433,262 consecutive man-hours without a lost workday injury

-VPP Application approved

Exceeding Environmental Standards



Ton Container Status



- 49.73% complete as of 8 March 2009

Heel Transfer System

- Heel transfer system (HTS) helps remove solidified residue or “heels” in bulk containers
  - Nearly 3,000 containers with heels
  - Heels weigh 630–1,100 pounds
  - Uses high-pressure warm water spray
    - Liquefies heel to pump from “heavy” container to empty container
    - Containers with a heel weight below 630 pounds can be processed throug the Metal Parts Furnace

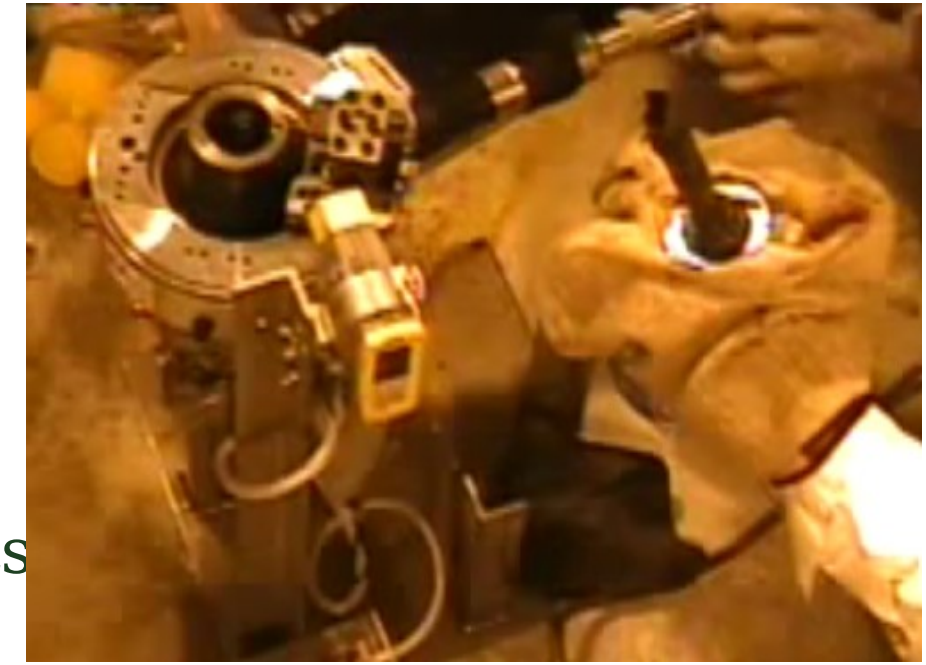
PFS Project

4.2” HT Mortar Campaign Preparations

- PMD systemization challenges with adjustments for smaller diameter bursters
- MDM systemization more difficult/time-consuming than anticipated
- MPF code updated to reflect change in operating limits
- Operational Readiness Review (ORR) completed week of 9 March
- Mobile Detonation Chamber will be used for 4.2” Mortar rejects

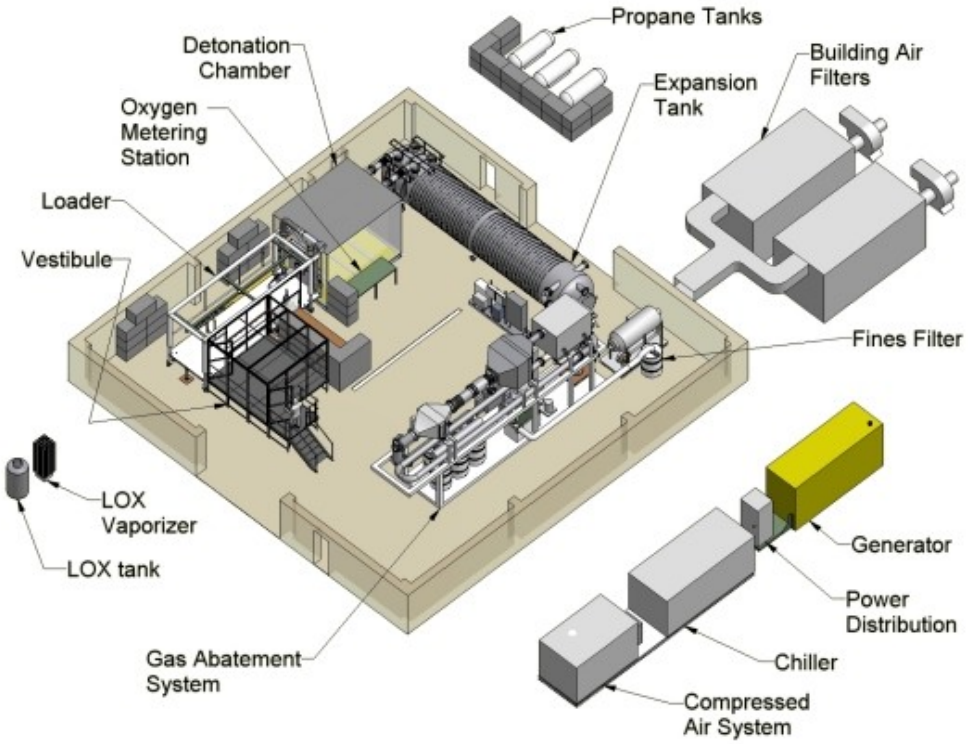
Leaker/Reject Campaign

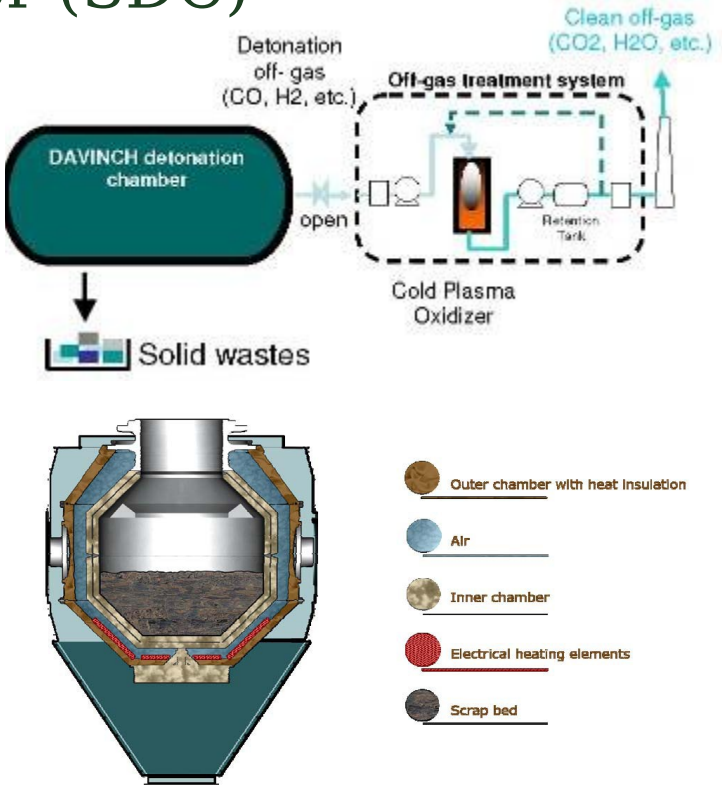
- 155mm H projectile rejects (198)
  - Difficulty extracting bursters (corroded well, 90% heel)
  - Projected rate of 2-4 projectiles per day
  - Significant worker handling requirements
- Anticipate similar conditions with 4.2” HT/HD mortars



Leaker/Reject Campaign

- EDT's being Considered:
  - Controlled Detonation Chamber (CDC)
  - Detonation of Ammunition in Vacuum Integrated Chamber (DAVINCH)
  - Static Detonation Chamber (SDC)





GA/Lewisite Update

- DCD Stockpile:
  - Small number of GA ton containers
  - Small number lewisite ton containers
  - Ten “transparency” ton containers with possible lewisite residues/heels
- Recommended Destruction Approach: small scale liquid incinerator
- Current scope includes:
  - Completing environmental review pursuant to the National Environmental Policy Act (NEPA)
  - 95% Design and Initial Procurement of Long Lead Equipment
  - Initiating permitting – RCRA and Clean Air Act Permit modifications

Currently within 30% design phase

GA/Lewisite Update

- Environmental Review/Permitting
  - Environmental Assessment (EA) indicated no significant environmental impact
    - EA & Draft Finding of No Significant Impact (FONSI) released for public comment 22 January 2009
    - Two sets of public comments received; all can be addressed without revising assessment
    - Comment response package prepared and reviewed with commenters prior to finalizing FONSI
  - Have initiated early air permitting efforts in anticipation of potentially lengthy regulatory review process

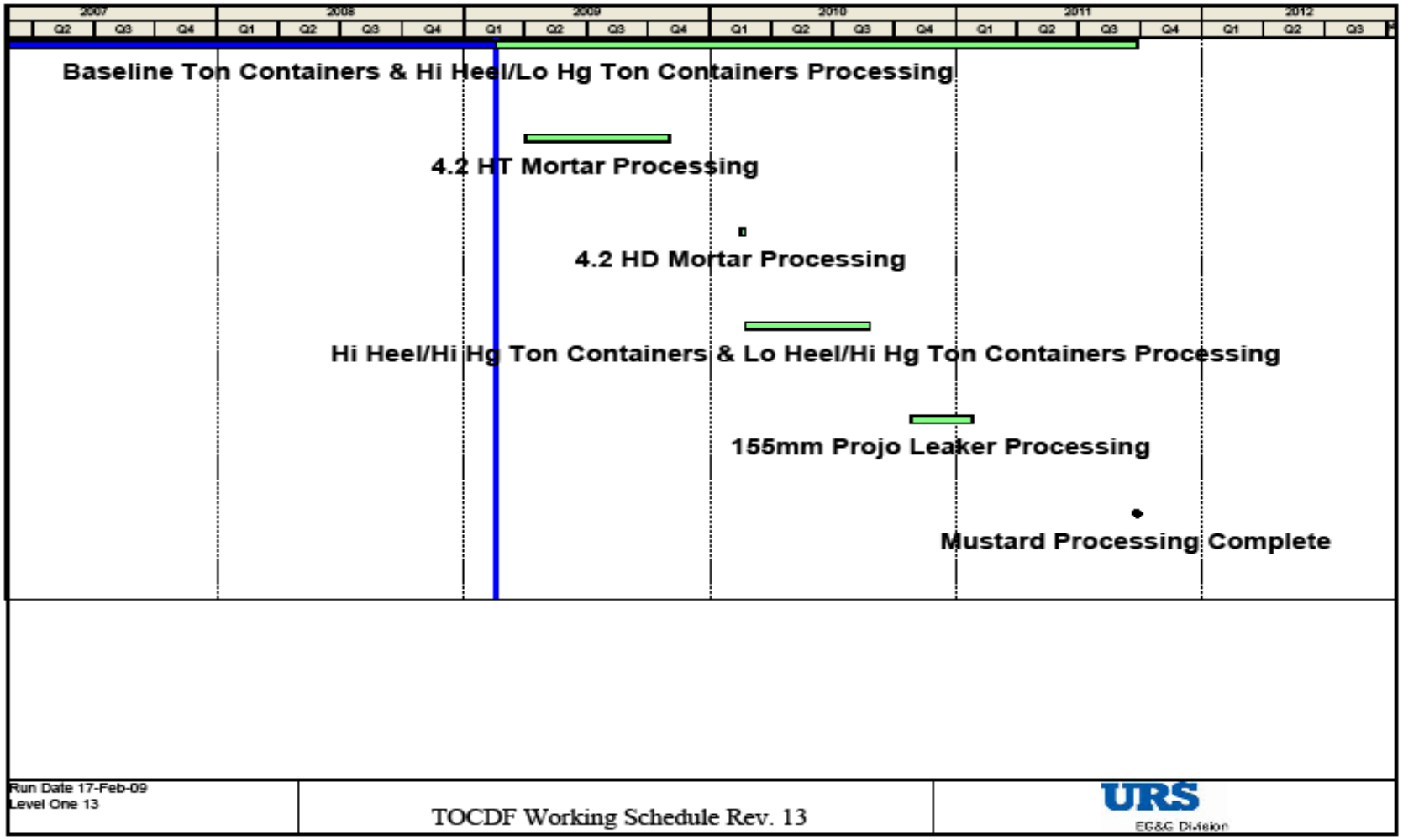
TOCDF Secondary Waste Update

- Drum Ventilation System operational May 2009
- Autoclave ready for operations June 2009 (photos of actual TOCDF Autoclave)

TOCDF Secondary Waste Update

- Autoclave throughput
  - One full cycle per day
  - Four bins per cycle, one bin holds four drums, sixteen 55 gallon drums per cycle
  - DPE Suits, LSS Air hoses and wood wastes processed first

Mustard Campaign Path Forward



Summary

- Six million man-hours (and increasing) without a lost workday injury
- Over 50% of Mustard tons processed
- Heel Transfer System successfully processing high heel tons
- PFS ready for operations October 2009
- Autoclave on-line to begin processing TOCDF Secondary Waste by June 2009

QUESTIONS?